

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	13	difference adj data same application adj object	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:27
L2	21	differenc\$5 adj data and application adj object and translat\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:03
L3	1	("20010047393").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/20 22:26
L4	1	("7020704").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/20 22:26
L5	1605	707/204.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:03
L6	1431	709/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:28
L7	9509	709/201-203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:28
L8	24923	709/217-228.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:28
L9	4813	709/230-232.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:28
L10	4002	709/236-238.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:28

EAST Search History

L11	2662	709/243,244,246,248.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:28
L12	1605	707/204.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:29
L13	931	719/310.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:29
L14	843	719/311-313.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:29
L15	2090	719/317,318,328.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:29
L16	1679	718/100.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:29
L17	837	718/105.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:29
L18	470	455/415.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:29
L19	1268	370/254.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:30
L20	2529	707/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:30

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L21	2638	707/201,203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:30
L22	176	708/204.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:30
L23	6113	707/10.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:30
L24	0	345/762.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:30
L25	101	345/62.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:31
L26	1195	370/359.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:31
L27	53628	I1 or I2 or I3 or I4 or I5 or I6 or I7 or I8 or I9 or I10 or I11 or I12 or I13 or I14 or I15 or I16 or I17 or I18 or I19 or I20 or I21 or I22 or I23 or I24 or I25 or I26	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:32
L28	11887	I27 and transfer\$5 near8 network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:32
L29	4301	I28 and user near5 request	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:33
L30	730	I29 and ((sync or synchroniz\$5 or differenc\$5 or delta) near5 data)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/20 23:34

EAST Search History

S1	1	(personal adj information adj space) near8 server near8 engine	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:30
S2	1	(personal adj information adj space) near8 server near8 synchroniz\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/06/06 18:17
S3	1	(personal adj information adj space) near8 synchroniz\$5 same server	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/06/06 18:17
S4	1	(personal adj information adj space) near8 synchroniz\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/06/06 18:17
S5	8	(personal adj information adj space)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/06/06 18:21
S6	0	server near8 synchronize near8 media near8 personnel	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/06/06 18:21
S7	0	server near8 synchronize near8 media near8 personal	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/06/06 18:21
S8	1	server near8 synchronize near8 media near8 user	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/06/06 18:22
S9	33	server near8 synchronize near8 personal	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/06/06 18:22
S10	1	("0505447").PN.	USPAT; USOCR	OR	OFF	2004/06/08 09:14
S11	8	synchroniz\$5 near5 (digital or media) same server same engine	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/24 16:47
S12	7	S11 and map\$6	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/24 16:49
S13	3	S11 and mapping	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/24 16:54
S14	215744	temporary or universal near5 structure near5 mapping	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/24 16:55
S15	18	(temporary or universal) near5 structure near5 mapping	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/24 17:17
S16	0	(temporary or universal or generic) near5 mapping near5 media same engine	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/24 17:02

EAST Search History

S17	3	(temporary or universal or generic) near5 mapping near5 media and engine	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/24 17:03
S18	203	(temporary or universal or generic) near5 mapping and media and engine	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/24 17:03
S19	43	(temporary or universal or generic) near5 mapping and media same engine	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/24 17:03
S20	2	(temporary or universal or generic) near5 mapping same media same engine	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/24 17:03
S21	4	(temporary or universal or generic) near5 mapping and media near5 engine	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/24 17:08
S22	9	(temporary or universal or generic) near5 mapping near5 media	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/24 17:08
S23	1	("6437818").PN.	USPAT	OR	OFF	2005/06/26 20:51
S24	0	("20030069874").PN.	USPAT	OR	OFF	2005/06/26 20:51
S25	1	("20030069874").PN.	US-PGPUB	OR	OFF	2005/06/26 21:28
S26	82	automotive adj computer	USPAT	OR	OFF	2005/06/26 21:28
S27	12	automotive adj computer and media	USPAT	OR	OFF	2005/06/26 21:28
S28	1	automotive adj computer and media and synchroniz\$5	USPAT	OR	OFF	2005/06/26 21:39
S29	1	("6437818").PN.	USPAT	OR	OFF	2005/06/26 21:39
S30	20	personal adj information adj space	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:30
S31	18	S30 and (digital or media)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:34
S32	27	fusionone\$.as.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:34
S33	22	S32 and (match\$5 or sync or synchroniz\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:35
S34	11	S33 and (digital or media)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:35
S35	8	S34 and space	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:38

EAST Search History

S36	16	onyon-richard\$.in.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:38
S37	25	multer-david\$.in.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:39
S38	31	S36 or S37	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:39
S39	21	S38 and (sync or synchroniz\$ or difference or match\$) and space	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:51
S40	714	private near space	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:51
S41	386	S40 and (sync or synchroniz\$ or difference or match\$) and space	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:51
S42	28	S40 and (sync or synchroniz\$ or difference or match\$) near8 (digital or media)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:52
S43	8	S42 and pda	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:54
S44	7	private adj information adj space	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 14:56
S45	20	personal adj information adj space	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 15:12
S46	49	directory near8 digital near5 media near5 file	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 15:13
S47	0	S46 same (sync or synchroniz\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 15:12
S48	32	S46 and network	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 15:13
S49	16	S48 and personal	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/08/17 15:20
S50	1	("7039656").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/17 16:36
S51	1	("6549933").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/17 16:37

EAST Search History

S52	1	("6401104").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/17 16:45
S53	180	media near5 sync and personal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 16:45
S54	3	media near5 sync same personal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 16:45
S55	16	S53 and pda	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 16:56
S56	190	synchroniz\$5 near5 media near5 player	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 16:57
S57	89	synchroniz\$5 near2 media near player	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 16:57
S58	7	S57 same network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 16:58
S59	74	S57 and network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 17:05
S60	277	automotive adj computer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 17:05
S61	50	S60 and synchroniz\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 17:05

EAST Search History

S62	28	S61 and media	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 17:06
S63	20	S62 and personal	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 13:39
S64	1428	media near audio near video	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 17:25
S65	193	media near audio near video near2 data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:13
S66	2231	application adj object same sync or synchronization and mp3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:13
S67	1	application adj object same (sync or synchronization) and mp3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:14
S68	98	application adj object and (sync or synchronization) and mp3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:43
S69	3	application adj object and (sync or synchronization) same mp3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:15
S70	5	com and (sync or synchronization) same mp3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:15
S71	2	S68 and (map\$5 near5 digital)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:18

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S72	8	S68 and (map\$5 near5 format)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:18
S73	48	application adj object and (sync or synchronization) and engine and mp3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:19
S74	1	application adj object and (sync or synchronization) and device near engine and mp3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:19
S75	7	application adj object and (sync or synchronization) and device near5 engine and mp3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:19
S76	63	application adj object and (sync or synchronization) and device near5 engine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:19
S77	13	application adj object and (sync or synchronization) and device adj engine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:20
S78	3	application adj object and (sync or synchronization) same mp3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:21
S79	37	application adj object same map\$4 same format	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 18:44
S80	20	application adj object same map\$4 same format and engine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:11
S81	12	application adj object same mapping and universal near2 format	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:14

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S82	0	palm adj rtm and application adj object	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:14
S83	17	"palm.rtm" and application adj object	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:21
S84	22	"palm.rtm" and digital and device adj engine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:22
S85	22	"palm.rtm" and device adj engine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:22
S86	21	"palm.rtm" same engine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:24
S87	30	"palm.rtm" and PIM	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:25
S88	15	"palm.rtm" and PIM and translat\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:26
S89	109	"palm.rtm" and translat\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:26
S90	6	"palm.rtm" same translat\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:27
S91	410	COM and application adj object and engine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:28

EAST Search History

S92	307	S91 and digital	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:28
S93	123	S92 and ((map or mapping) same format)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/17 19:29
S94	57	S92 and ((map or mapping) near5 format)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/18 12:18
S95	1	("6694336").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/18 12:18
S96	1	("6812961").PN.	US-PGPUB; USPAT	OR	OFF	2006/08/20 19:27

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Relevance scale 

1 [Level set and PDE methods for computer graphics](#)

 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
 August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(17.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

2 [GPGPU: general purpose computation on graphics hardware](#)

 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
 August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(63.03 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

3 [Fortran 8X draft](#)

 Loren P. Meissner
 December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(21.36 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Standard Programming Language Fortran. This standard specifies the form and establishes the interpretation of programs expressed in the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this

standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...

4 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 Draft Proposed: American National Standard—Graphical Kernel System

 Technical Committee X3H3 - Computer Graphics

February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI

Publisher: ACM Press

Full text available:  [pdf\(16.07 MB\)](#) Additional Information: [full citation](#)

6 Real-time shading

 Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

7 Query evaluation techniques for large databases

 Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(9.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms,

sort-hash duality

8 The elements of nature: interactive and realistic techniques

 Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(17.65 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

9 Feedback techniques for continuity and synchronization in multimedia information retrieval

 P. Venkat Rangan, Srinivas Ramanathan, Srihari Sampathkumar
April 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(2.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Future advances in storage and networking technologies will make it feasible to build multimedia on-demand information servers capable of providing services similar to those of a neighborhood videotape rental store over metropolitan area networks. Such multimedia information servers must not only support retrieval of continuous media units (such as video frames and audio samples), but also preserve synchrony among playback of the different media components constituting a multimedia object. ...

Keywords: intermedia synchronization, intramedia continuity, multimedia, multimedia on-demand information services, synchronization

10 Using electronic media for information sharing activities: a replication and extension

D. Sandy Staples, Sirkka L. Jarvenpaa

December 2000 **Proceedings of the twenty first international conference on Information systems**

Publisher: Association for Information Systems

Full text available:  [pdf\(186.62 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

11 Informed content delivery across adaptive overlay networks

 John Byers, Jeffrey Considine, Michael Mitzenmacher, Stanislav Rost
August 2002 **ACM SIGCOMM Computer Communication Review, Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '02**, Volume 32 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(245.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Overlay networks have emerged as a powerful and highly flexible method for delivering content. We study how to optimize throughput of large transfers across richly connected,

adaptive overlay networks, focusing on the potential of collaborative transfers between peers to supplement ongoing downloads. First, we make the case for an erasure-resilient encoding of the content. Using the digital fountain encoding approach, end-hosts can efficiently reconstruct the original content of size $\$n\$$ from a ...

Keywords: Bloom filter, collaboration, content delivery, digital fountain, erasure correcting code, min-wise summary, overlay, peer-to-peer, reconciliation

12 Comparing design options for allocating communication media in cooperative safety-critical contexts: a method and a case study



Robert Fields, Fabio Paternò, Carmen Santoro, Sophie Tahmassebi

December 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available: [pdf\(437.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this article we present a method for evaluating and comparing design options for allocating communication media. The method pays particular attention to how such options support cooperation in an interactive safety-critical system. The comparison is performed using three sets of criteria based on task performance, analysis of user deviations and consequent hazards, and coordination. The explicit emphasis on hazards and communication issues, using actual tasks to guide the evaluation, ens ...

Keywords: air traffic control, task, usability and safety

13 Facial modeling and animation



Jörg Haber, Demetri Terzopoulos

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(18.15 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

14 High dynamic range imaging



Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(20.22 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

15 Principled design of the modern Web architecture



Roy T. Fielding, Richard N. Taylor

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: [pdf\(335.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

16 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: [pdf\(613.63 KB\)](#) [html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Informed content delivery across adaptive overlay networks

John W. Byers, Jeffrey Considine, Michael Mitzenmacher, Stanislav Rost
October 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 5

Publisher: IEEE Press

Full text available: [pdf\(645.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Overlay networks have emerged as a powerful and highly flexible method for delivering content. We study how to optimize throughput of large transfers across richly connected, adaptive overlay networks, focusing on the potential of collaborative transfers between peers to supplement ongoing downloads. First, we make the case for an erasure-resilient encoding of the content. Using the digital fountain encoding approach, end hosts can efficiently reconstruct the original content of size $< i > n$...

Keywords: bloom filter, content delivery, digital fountain, erasure code, min-wise sketch, overlay, peer-to-peer, reconciliation

18 Comparison of access methods for time-evolving data



Betty Salzberg, Vassilis J. Tsotras

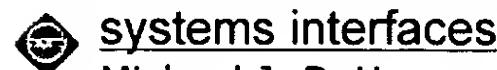
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Publisher: ACM Press

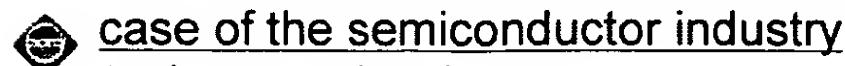
Full text available: [pdf\(529.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper compares different indexing techniques proposed for supporting efficient access to temporal data. The comparison is based on a collection of important performance criteria, including the space consumed, update processing, and query time for representative queries. The comparison is based on worst-case analysis, hence no assumptions on data distribution or query frequencies are made. When a number of methods have the same asymptotic worst-case behavior, features in the methods tha ...

Keywords: I/O performance, access methods, structures, temporal databases

19 Vulcans, Klingons and humans: the relevance of individual differences for information systems interfaces

Michael J. DeHaemer

March 1991 **Proceedings of the 1991 conference on SIGCPR****Publisher:** ACM PressFull text available: [pdf\(720.46 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**20 Inter-organization networks, computer integration, and shifts in interdependence: the**

Paul Hart, Deborah Estrin

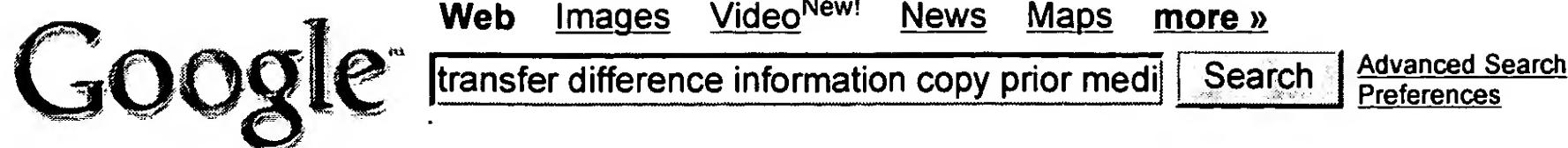
October 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 4**Publisher:** ACM PressFull text available: [pdf\(2.03 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

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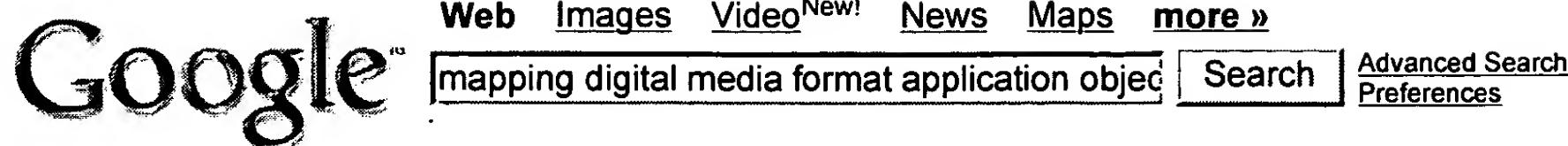
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[Thermoelectrics, 2003 Twenty-Second International Conference on - ICT](#)
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